

What is claimed is:

1. A video delivering system for vehicle use comprising:
a video generation unit which generates video data;

5 a ring-type network which is connected to the video generation unit, and in which a video delivering device for sending and receiving data to and from the video generation unit and a plurality of units connected to the video delivering device are connected with one another in a ring shape and data
10 is sent and received between the units adjacent to each other;
and

a branch network which is connected to the video delivering device, and in which video data generated in the video generation unit is sent to at least one of video display units through
15 the video delivering device.

2. The video delivering system for vehicle use of claim 1,
wherein

in the ring-type network, data is sent and received at
20 a predetermined transmission bit rate and, in the branch network,
data is sent and received at a higher transmission bit rate
than that of the ring-type network; and

the video delivering device delivers uncompressed video data from the video generation unit through the branch network
25 to the video display unit and sound data corresponding to the relevant video data is delivered from the video generation unit to a sound output unit through the ring-type network.

3. The video delivering system for vehicle use of claim 2,
wherein

the video generation unit comprises: a first video
5 generation unit which sends first video data to the video
delivering device; and a second video generation unit which
delivers second video data to the video delivering device, and
the video delivering device delivers the first video data and
the second video data to the video display unit according to
10 a time division multiplexing method, and delivers a first sound
data corresponding to the first video data and a second sound
data corresponding to the second video data to the sound output
unit, and

the video display unit displays the first video data or
15 the second video data, and, at the same time, the sound output
unit reproduces sounds by fetching the first or second sound
data corresponding to the first or second video data fetched
in the video display unit.

20 4. The video delivering system for vehicle use of claim 1,
wherein

the ring-type network further comprises at least one of
video display units, and

the video delivering device is provided with compression
25 and expansion means for compressing or expanding video data,
and delivers compressed video data generated in the video
generation unit to the video display unit in the branch network

after expansion processing of the compressed video data and, at the same time, uncompressed video data to the video display unit in the ring-type network after compression processing of the uncompressed video data.

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5. A video delivering system for vehicle use, comprising:
a ring-type network in which a plurality of units including a video generation unit which generates video data are connected with one another in a ring shape and data is sent and received
10 between the units adjacent to each other;

a wavelength multiplexing coupler which multiplexes a plurality of kinds of video data, which have been fed from the video generation unit as an optical signal, for output; and

a branch network comprising: a branch coupler which is
15 connected to the wavelength multiplexing coupler and divides beams input from the wavelength multiplexing coupler; and at least one of video display units, which are branched from the branch coupler and display video data generated in the video generation unit.

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6. The video delivering system for vehicle use of claim 5, wherein the ring-type network comprises: a sending/receiving means for sending and receiving data between units adjacent to each other; and a converting means for feeding video data
25 input from the video generation unit to the wavelength multiplexing coupler as an optical signal.

7. A video delivering system for vehicle use, comprising:
video-data input means which inputs video data from a
video generation unit for generating the video data;

first communication means which is connected to a
5 ring-type network in which a plurality of units are connected
with one another in a ring shape, and sends and receives data
between the units adjacent to each other; and

second communication means which is connected to the first
communication means and to a branch network in which a plurality
10 of units are branched from the second communication means and
sends video data input in the video data input means to at least
one of video display units in the branch network.

8. The video delivering system for vehicle use of claim 7,
15 wherein

the second communication means sends and receives data
at a predetermined transmission bit rate and delivers
uncompressed video data input with the video data input means
to the video display unit through the branch network, and

20 the first communication means sends and receives data
between units at a lower transmission bit rate than the
predetermined transmission bit rate and delivers sound data
corresponding to the video data, which has been delivered to
the branch network, from the video generation unit to a sound
25 output unit through the ring-type network.

9. The video delivering system for vehicle use of claim 8,
wherein

the second communication means delivers a plurality of kinds of video data to the video display unit according to a time division multiplexing method, and the first communication means delivers sound data corresponding to the plurality of kinds of video data to the sound output unit when the plurality of kinds of video data from a plurality of video generation units are delivered.

10. The video delivering system for vehicle use of claim 8,

10 further comprising

compression and expansion means by which expansion processing of compressed video data from the video generation unit included in the ring-type network is executed and the compressed video data is delivered to the video display unit included in the branch network by the second communication means, and, at the same time, compression processing of uncompressed video data is executed and the uncompressed video data is delivered to the video display unit included in the ring-type network by the first communication means.

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